

Attorney Docket No.: UMD0067US.NP
Inventors: Welsh et al.
Serial No.: 10/565,417
Filing Date: August 3, 2006
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This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): A method of imputing missing values in microarray data comprising the steps of:

(a) clustering the data by a Gaussian mixture clustering (GMC) model, which imposes a mixture of multivariate normal distributions, wherein said GMC model comprises the steps of

(i) determining a value of K (number of clusters) for microarray data comprising rows and columns using Bayesian information criterion,

(ii) partitioning the rows of the microarray data into K partitions, and

(iii) repeating a Classification Expectation-Maximization algorithm until the K partitions converge;

(b) estimating missing values by a GMCimpute algorithm so that missing values in microarray data are imputed; and

(c) outputting the missing values to a display or memory.

Claim 2 (canceled).

Claim 3 (previously presented): A computer-readable medium encoded with a computer program, wherein the computer program, once executed by a computer processor, performs a method of imputing

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missing values in microarray data according to the method of claim
1.

Claims 4-8 (canceled).